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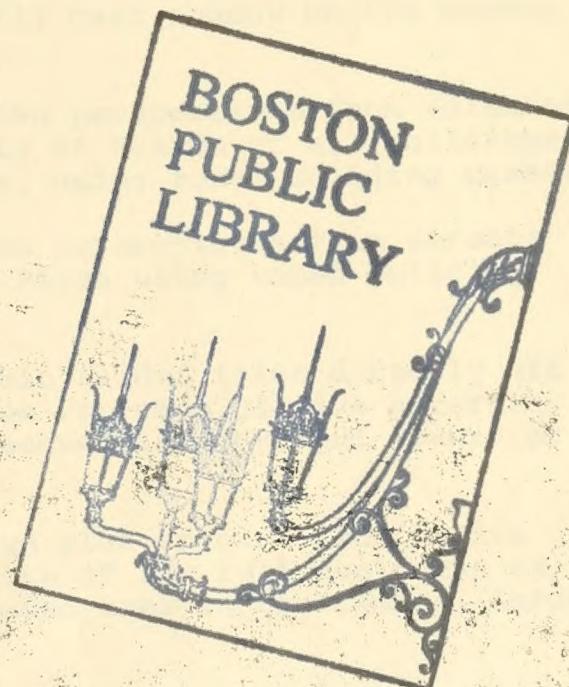
x6 cover ✓

Gov. 97-135

Property Of  
**BOSTON REDEVELOPMENT AUTHORITY**  
Library

Park Plaza  
**III K**

CLIFFORD DOUGLAS STEWART ASSOCIATES



Park Plaza  
C 637  
P

RECEIVED - MAR 25 1968

of either too tight or too  
loose a fit. It is  
desirable to have  
each one's own  
size.

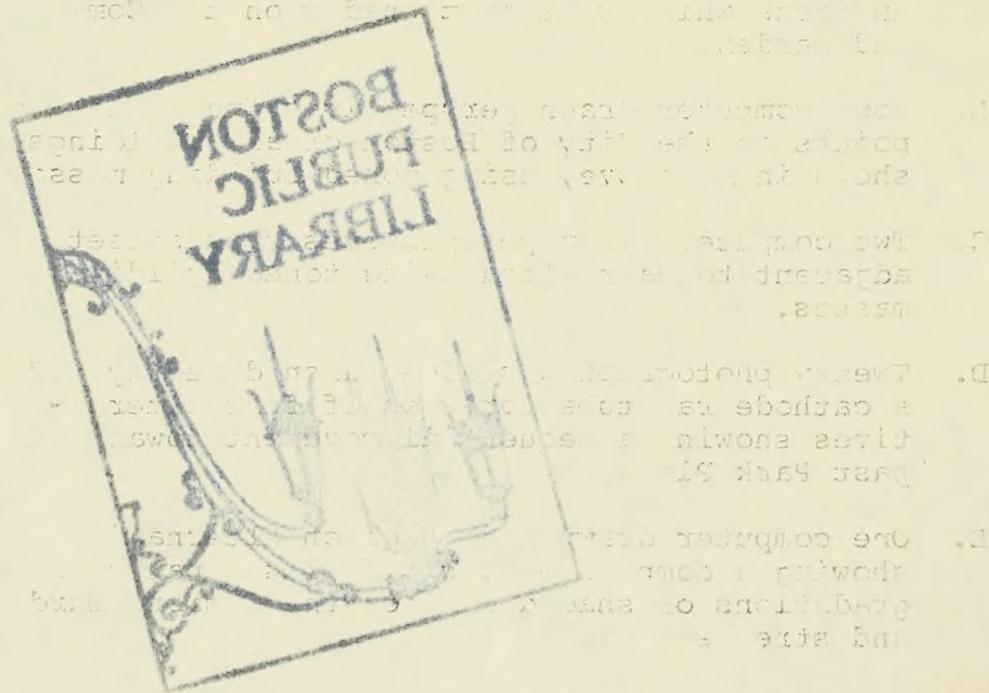
After the first  
few days, the  
best fit is  
achieved.

## GENERAL

Groups of 10 or more of the same  
size should be used for  
any continuous trials. Individual  
tests may show  
the individual  
size to be best.

It is suggested that  
the following steps be followed:  
1. Measure the  
size of the  
hand.

2. Select a  
size from  
the chart  
which is  
nearest to  
the size  
measured.



*Check  
Bill for Staler*

3/3

# The Saratoga Associates

February 26, 1975

Clifford Douglas Stewart Associates  
Computer-Aided Design Consultants  
One Court Street  
Boston, Massachusetts 02108

Attn: Mr. Michael Sena

Re: Boston Redevelopment Authority  
Park Plaza

Gentlemen:

You are hereby authorized to proceed with computer generated solar exposure and macro visual studies in accordance with our conversations and your proposal dated 31 January 1975; specifically: format 4, 6 days per year.

Based on Environmental Base and Development Alternative descriptions that we will provide to you, you will construct at least the following:

- A. One computer drawn sheet showing each of five alternatives in plan including the physical environs which will cast shadow on the Common and Garden.
- B. Four computer drawn perspectives from selected points in the City of Boston of all buildings shown in A. above, using toned building masses.
- C. Two computer drawn perspectives from streets adjacent to Park Plaza using toned building masses.
- D. Twenty photographic slides taken directly off a cathode ray tube for each of five alternatives showing a sequential movement toward or past Park Plaza.
- E. One computer drawn plan of each alternative showing a composite of six full sun paths as gradations of shaded area on the Common, Garden and streets.



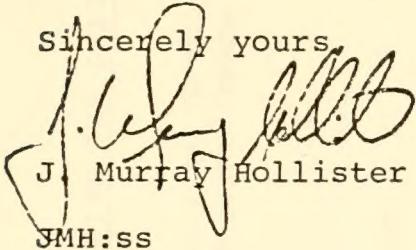
# The Saratoga Associates

## F. Storage of all information on magnetic tape.

It is our understanding that this format will accurately respond to the question ... "What percentage of time will each segment of the ground plane be in shadow per year?"

Upon receipt of your invoice, compensation in proportion to work accomplished will be requested in our next regular monthly billing to the Boston Redevelopment Authority. Immediately upon receipt of payment, it will be forwarded to you. Total compensation will amount to the lump sum of \$4,340.

Sincerely yours,



J. Murray Hollister

JMH:ss

Approved by the Boston Redevelopment Authority

By: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by Clifford Douglas Stewart Associates

By: \_\_\_\_\_

Date: \_\_\_\_\_



CLIFFORD DOUGLAS STEWART ASSOCIATES

## **PROPOSAL FOR PROVIDING SUN SHADOW INFORMATION:**

THE EFFECT OF PARK PLAZA ON THE BOSTON  
PUBLIC GARDEN AND BOSTON COMMON

Submitted to:  
Saratoga Associates  
The Arcade  
Saratoga Springs, New York 12866  
31 January 1975  
M. Sona

Scope of Work: - Aug (Aug 20)

Provide information on the location of shadows on the Boston Common generated as a result of five alternate proposals for park plazas.

A matrix of options and their related costs is enclosed with the number of calculations and the degree of detail as the major variables.



Matrix of Options and Related Costs

# of Days/Year	Format	1 Calculated Grid	2 Limited Graphics	3 Limited Graphics & Grid	4 Detailed Graphics	5 Detailed Graphics & Grid	6 Graphic Representation Calculated Grid
3 Days	\$ 2400.00	2980.00	3880.00	4040.00	4940.00	4940.00	ADD 1100.00
6 Days	2550.00	3280.00	4180.00	4340.00	5240.00	5240.00	1300.00
12 Days	2700.00	3580.00	4480.00	4940.00	5840.00	5840.00	1700.00

Format

1. Calculated Grid

Example 3 Days

Computer Consulting	40 hrs @ 25	1000.
Computer Time	30 hrs @ 40	1200.
Man Hours	10 x 8 x 2.5	260.
		2400.

2. Limited Graphics

Example 3 Days

Digesting	180.	
Computer Consulting	20 hrs @ 25	500.
Computer Time	35 hrs @ 40	1400.
Man Hours	45 x 8 x 2.5	900.
		2980.

Output

- a. Number of minutes per day that each grid square is in sun for each of five alternates.

- a. 1 computer drawn sheet showing each of five alternates in plan including those buildings adjacent to Common and Garden on South and West sides.
- b. 4 computer drawn perspectives from selected points in the City of Boston all buildings shown in a. above without hidden line removal.
- c. 1 computer drawn plan of each alternate for each day showing one full sun path as a shaded area on the Common, Public Garden and streets.
- d. Storage of all information on magnetic tape to be used in testing future proposals.

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3. Limited Graphics & Calculated Grid  
Example 3 Days  
Cost of #2      2980.  
 Extra Computer    15 hrs @ 40      600.  
 Extra Computer Consulting    15 hrs @ 20      300.  
                        3880.

4. Detailed Graphics  
Example 3 Days  
 Digitizing      240.  
 Computer Consulting    55 hrs @ 40      2200.  
 Computer Time    55 hrs @ 2.5      1000.  
 Man Hours    55 x 8 x 2.5      4040.

- a. All of the output for #2 with the addition of a grid and the number of minutes per day that each grid square is in sun for each of five alternates.
- a. 1 computer drawn sheet showing each of five alternates in plan including those buildings adjacent to Common and Garden on South and West sides.
  - b. 4 computer drawn perspectives from selected points in the City of Boston of all buildings shown in a. above using toned building masses.
  - c. 2 computer drawn perspectives from streets adjacent to Park Plaza using toned building masses.
  - d. 20 photographic slides taken directly off the cathode ray tube for each of five alternates showing a sequential movement toward or past Park Plaza.
  - e. 1 computer drawn plan of each alternate for each day showing one full sun path as a shaded area on the Common, Public Garden and streets.
  - f. Storage of all information on magnetic tape.
- a. All of the output for #4 with the addition of a grid and the number of minutes per day that each grid square is in sun.
  - a. Black and White toned drawing showing the number of minutes each grid would be in sun for a whole day for each alternate.
 

Man Hours	40 x 8 x 2.5	700.
Computer	10 x 40	<u>400.</u>
		<u>1100.</u>
6. Graphic Representation of Calculated Grid  

Man Hours	40 x 8 x 2.5	700.
Computer	10 x 40	<u>400.</u>
		<u>1100.</u>

